



(12) **United States Patent**
Molettiere et al.

(10) **Patent No.:** **US 9,048,923 B2**
(45) **Date of Patent:** **Jun. 2, 2015**

(54) **SYSTEM AND METHOD FOR WIRELESS
DEVICE PAIRING**

(2013.01); *A61B 5/0004* (2013.01); *A61B 5/0022* (2013.01); *H04W 4/008* (2013.01);
H04W 76/023 (2013.01); *G06F 19/30*
(2013.01)

(71) Applicant: **Fitbit, Inc.**, San Francisco, CA (US)

(72) Inventors: **Peter Andrew Molettiere**, San Francisco, CA (US); **James Park**, Berkeley, CA (US); **Aislinn Abigail Bilodeaux-Dewey**, San Francisco, CA (US); **Christine Boomer Brumback**, San Francisco, CA (US); **Eric Nathan Friedman**, San Francisco, CA (US); **Robert Curtis Cole**, Los Altos, CA (US); **Heiko Gernot Albert Panther**, Oakland, CA (US); **Andrew Cole Axley**, Oakland, CA (US)

(73) Assignee: **Fitbit, Inc.**, San Francisco, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **14/140,208**

(22) Filed: **Dec. 24, 2013**

(65) **Prior Publication Data**

US 2014/0235168 A1 Aug. 21, 2014

Related U.S. Application Data

(62) Division of application No. 13/769,350, filed on Feb. 17, 2013.

(51) **Int. Cl.**

H04B 7/00 (2006.01)

H04B 7/26 (2006.01)

A61B 5/00 (2006.01)

H04W 4/00 (2009.01)

H04W 76/02 (2009.01)

H04W 8/00 (2009.01)

G06F 19/00 (2011.01)

(52) **U.S. Cl.**

CPC **H04B 7/26** (2013.01); **H04W 8/005**

(58) **Field of Classification Search**

None

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,772,331 B1 *	8/2004	Hind et al.	713/151
6,845,097 B2 *	1/2005	Haller et al.	370/352
7,865,140 B2	1/2011	Levien et al.	
7,907,901 B1	3/2011	Kahn et al.	
7,925,022 B2	4/2011	Jung et al.	
7,941,665 B2	5/2011	Berkema et al.	
8,059,573 B2	11/2011	Julian et al.	
8,095,071 B2	1/2012	Sim et al.	
8,103,247 B2	1/2012	Ananthanarayanan et al.	
8,190,651 B2	5/2012	Treu et al.	
8,213,613 B2	7/2012	Diehl et al.	
8,260,261 B2	9/2012	Teague	

(Continued)

Primary Examiner — Zhiyu Lu

(74) *Attorney, Agent, or Firm* — Courtney IP Law; Barbara B. Courtney

(57) **ABSTRACT**

Embodiments of the present invention include a system and method for wirelessly identifying and validating an electronic device in order to initiate a communication process with another device or a service. In an embodiment, the system includes a portable biometric monitoring device that is identified by a client device or a server for the purpose of initiating a pairing process. In an embodiment, pairing implies pairing the portable device to an online user account with minimal user interaction. After pairing, the portable device and appropriate client devices and servers communicate with little or no user interaction, for example to upload sensor data collected by the portable device.

13 Claims, 14 Drawing Sheets

